

Journal Publications: A Need for International Collaboration

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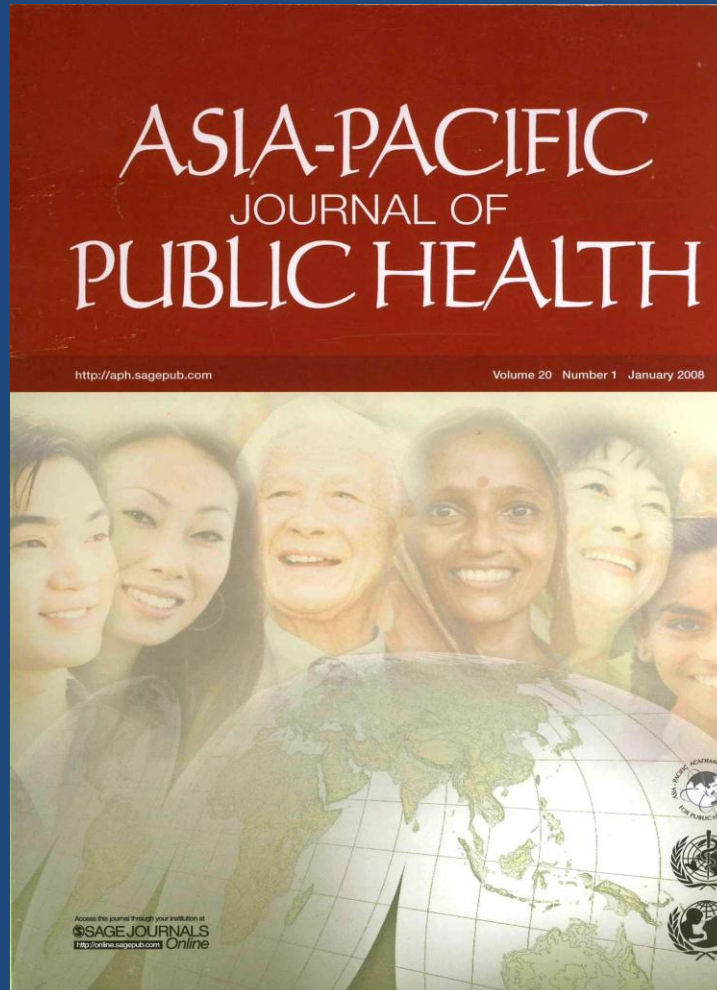
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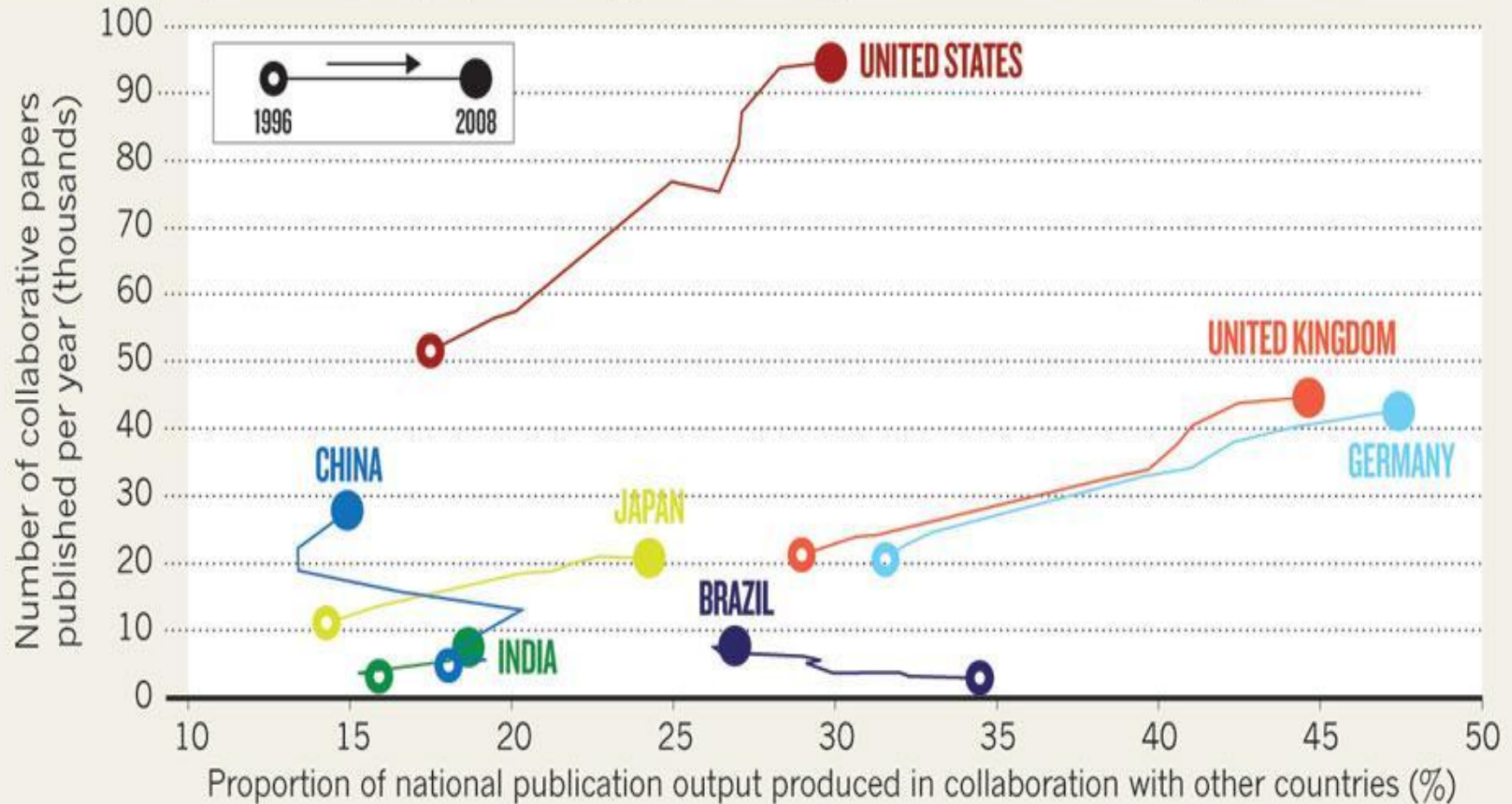


Introduction

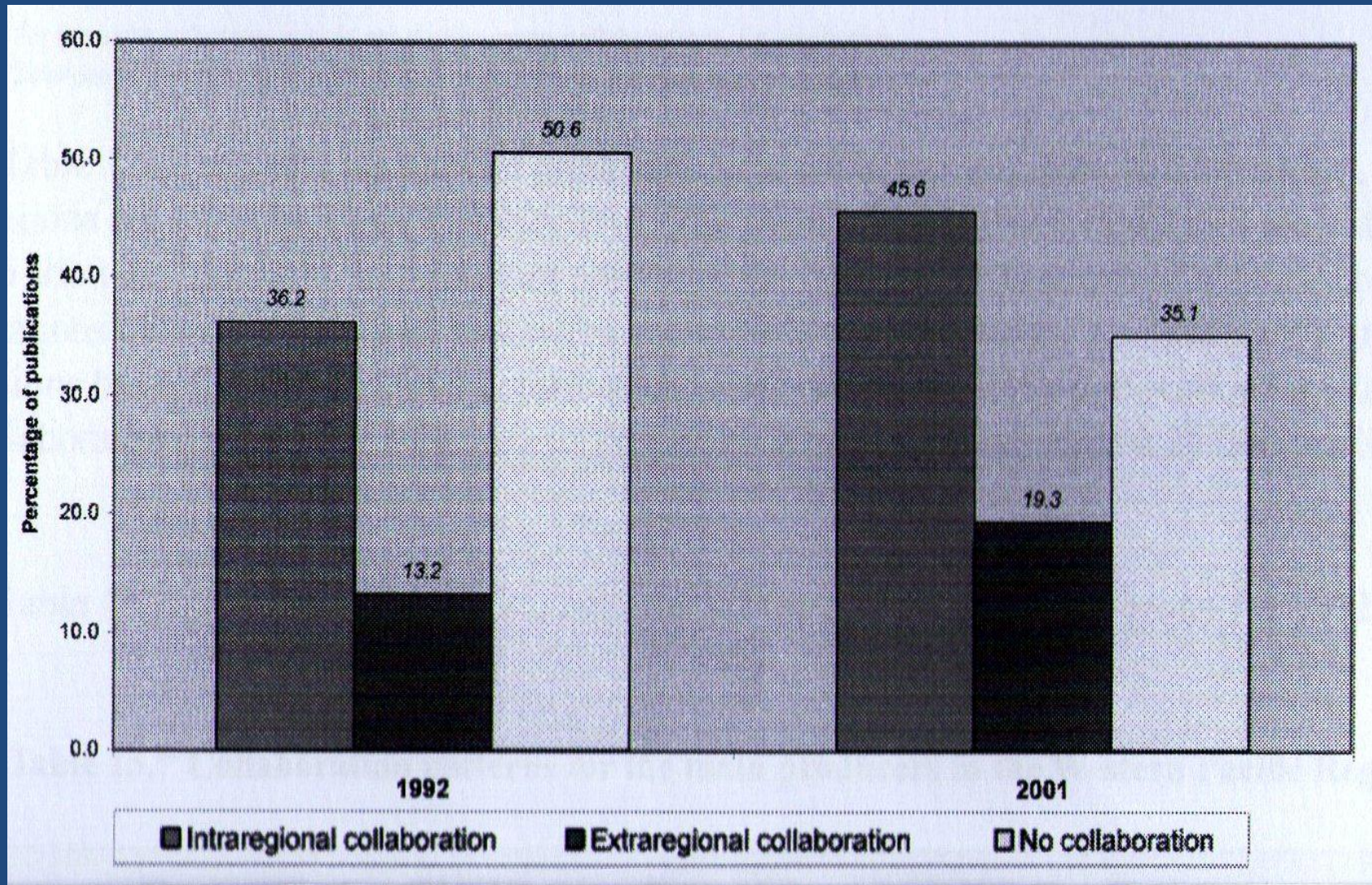
- International collaboration → effects of globalization & rapid development in scientific communication. With international research collaboration → increased in international co-authorship in scientific communications and publications. It also improve research quality and high impact publications in high impact scientific journals.
- International co-authored publications → greater number of citations than domestic or national co-authored publications (*Katz & Fixccs 1997; Thelwall 2009; Glazel & Schubert*). They are cited up to twice as frequently as single-country papers (*Narin & Whitlow 1990*)

A WORLD OF COLLABORATION

In developed countries, collaborative papers increased as a proportion of national output. In some fast-developing countries, the proportion dropped even though the absolute number of papers rose.



Collaboration pattern in the Western Pacific Region: Scientific publication in health-related disciplines



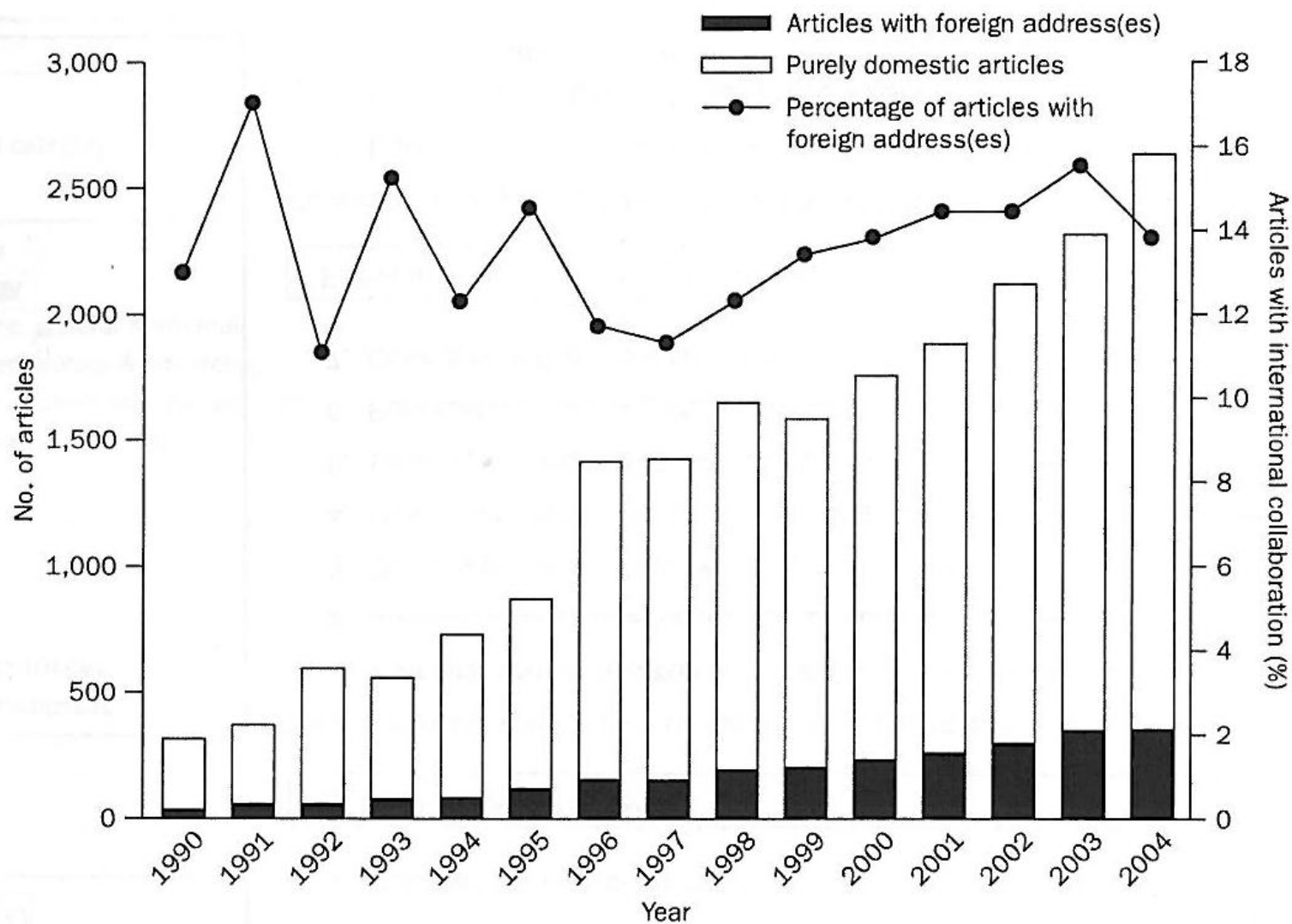


Figure 1. Trends in Taiwan's clinical medicine publications in the Web of Science.

Table 1. Distribution of Taiwan's clinical medicine publications in the Web of Science by journal impact factor, 1990–2004

Journal impact factor*	No. of all articles	Articles with foreign address, <i>n</i> (%)
≥ 5	1,494	448 (30.0)
≥ 4 and < 5	1,058	233 (22.0)
≥ 3 and < 4	2,170	368 (17.0)
≥ 2 and < 3	2,903	446 (15.4)
≥ 1 and < 2	6,547	758 (11.6)
< 1	5,411	409 (7.6)
NA	624	90 (14.4)
Total	20,207	2,752 (13.6)

*The journal impact factor was based on the 2004 Journal Citation Reports Science Edition. NA = Not available.

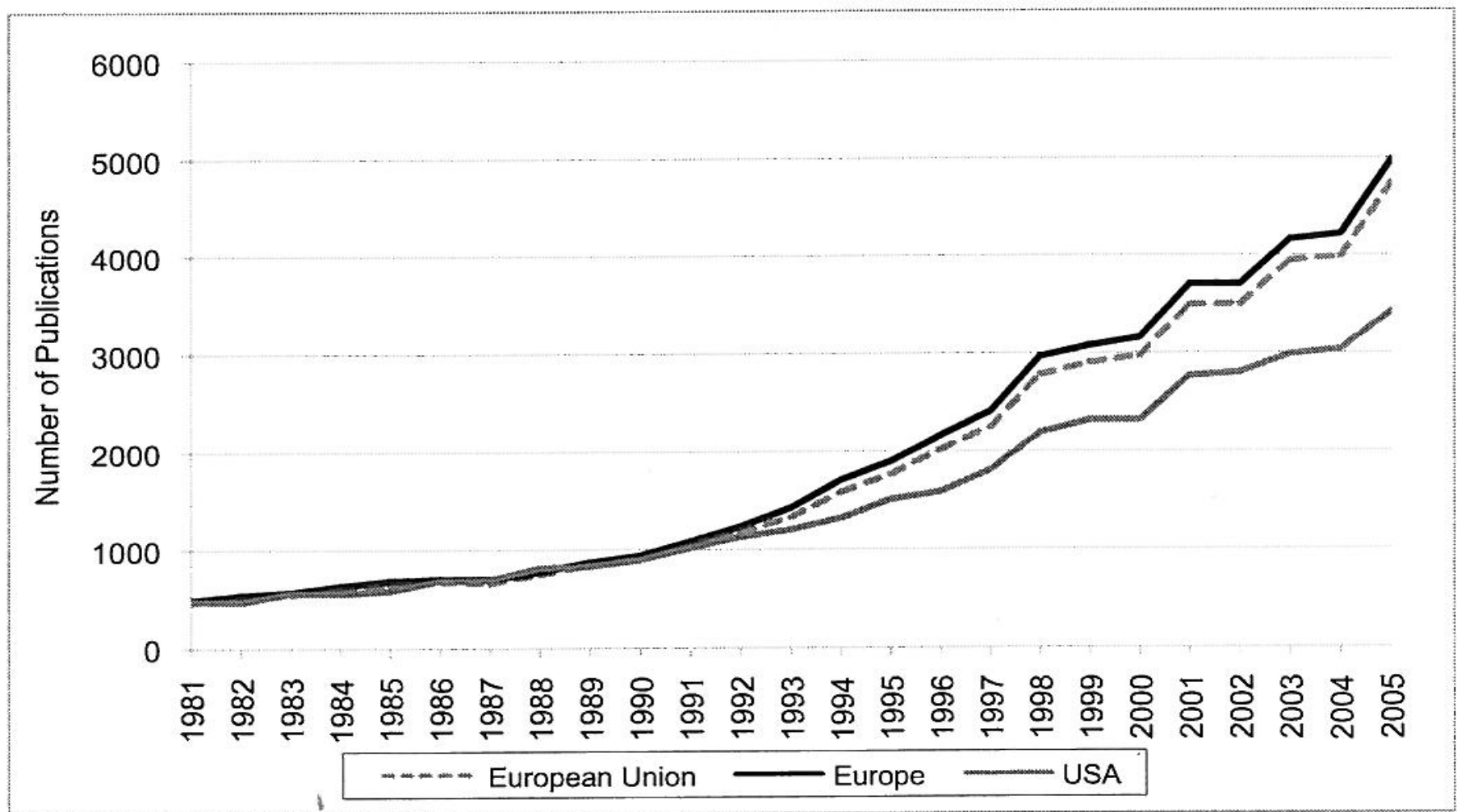


Figure 2. Australian Collaborations with the European Union, Europe and USA, Total publications, 1981-2006

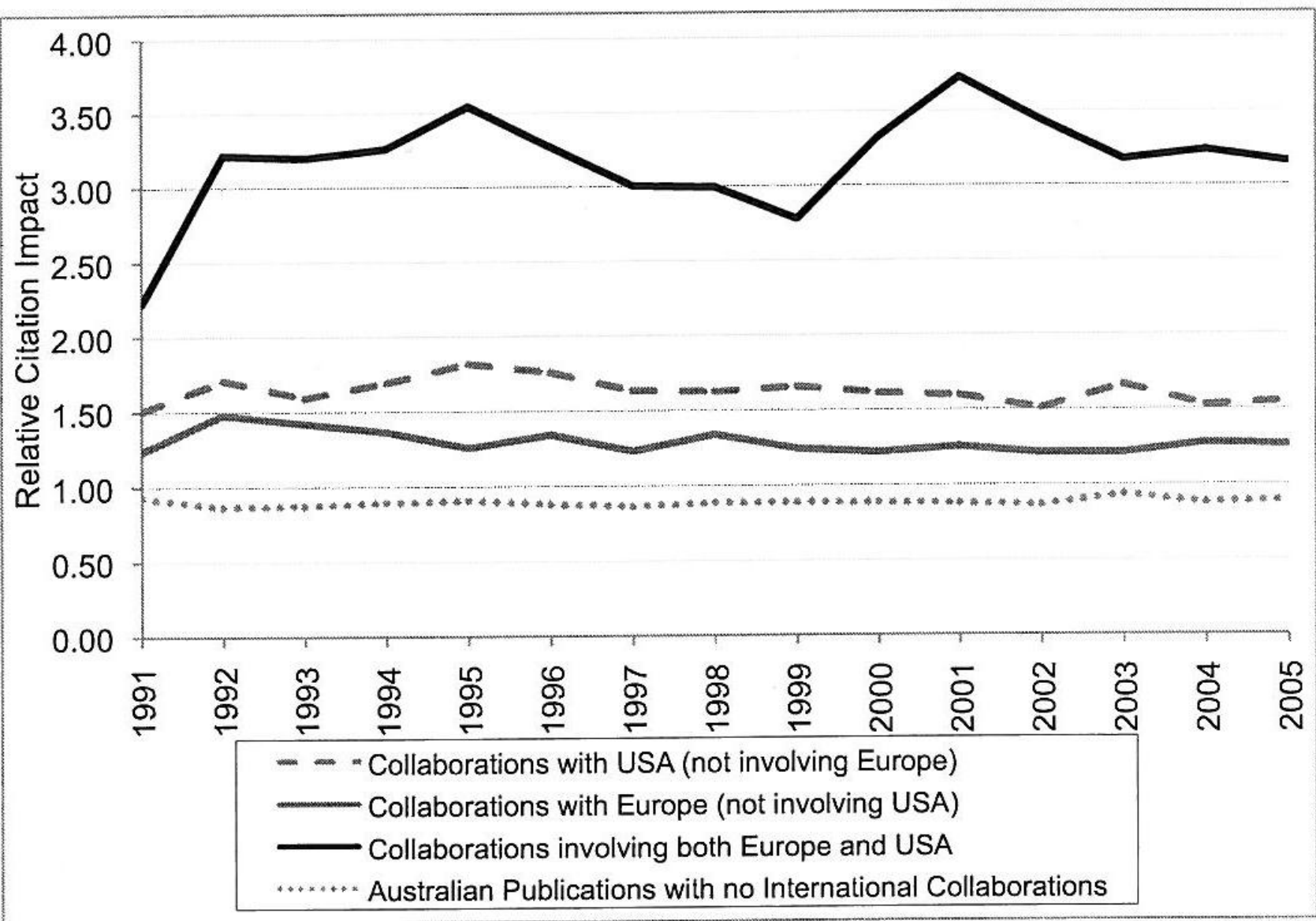
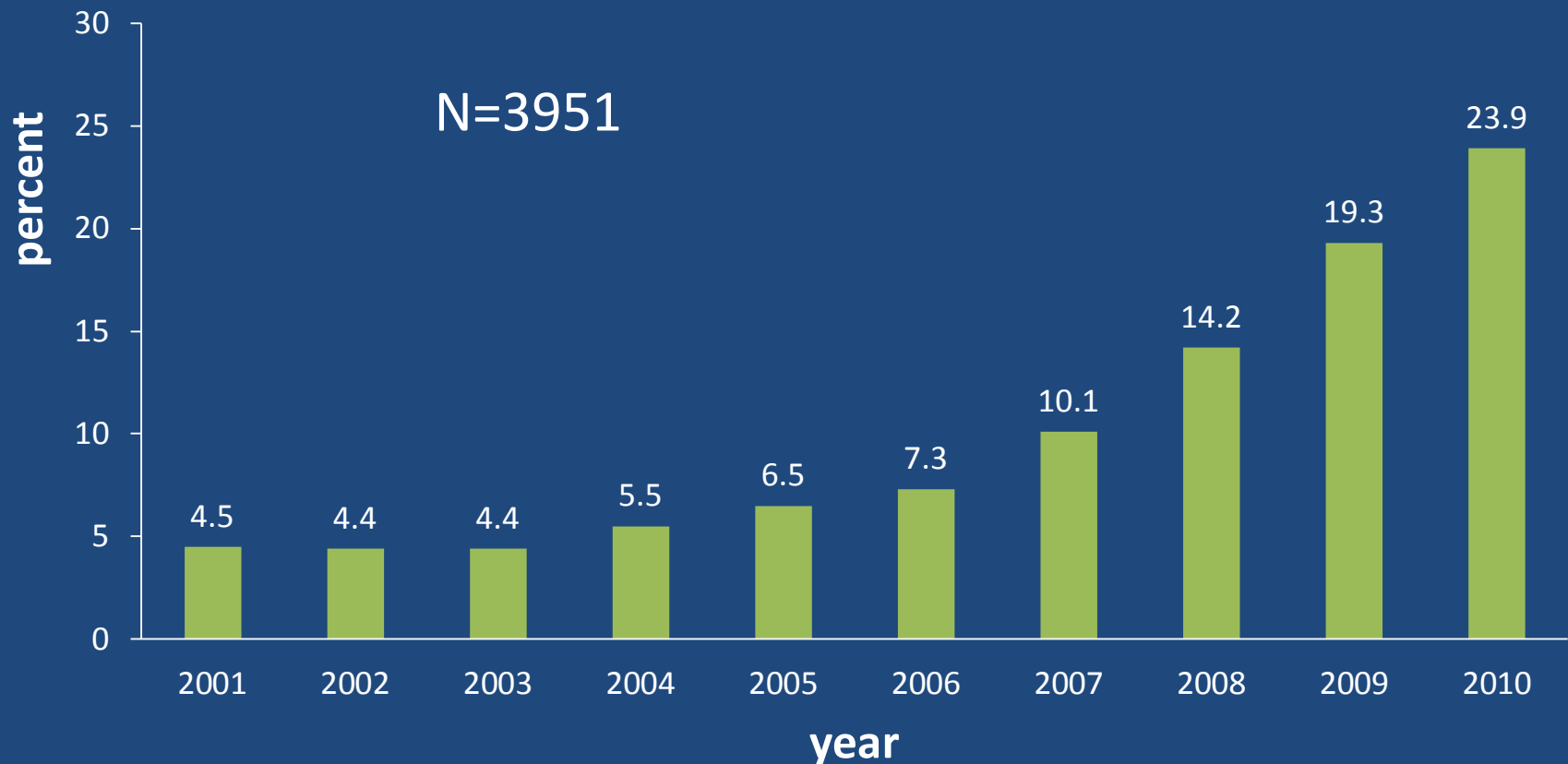
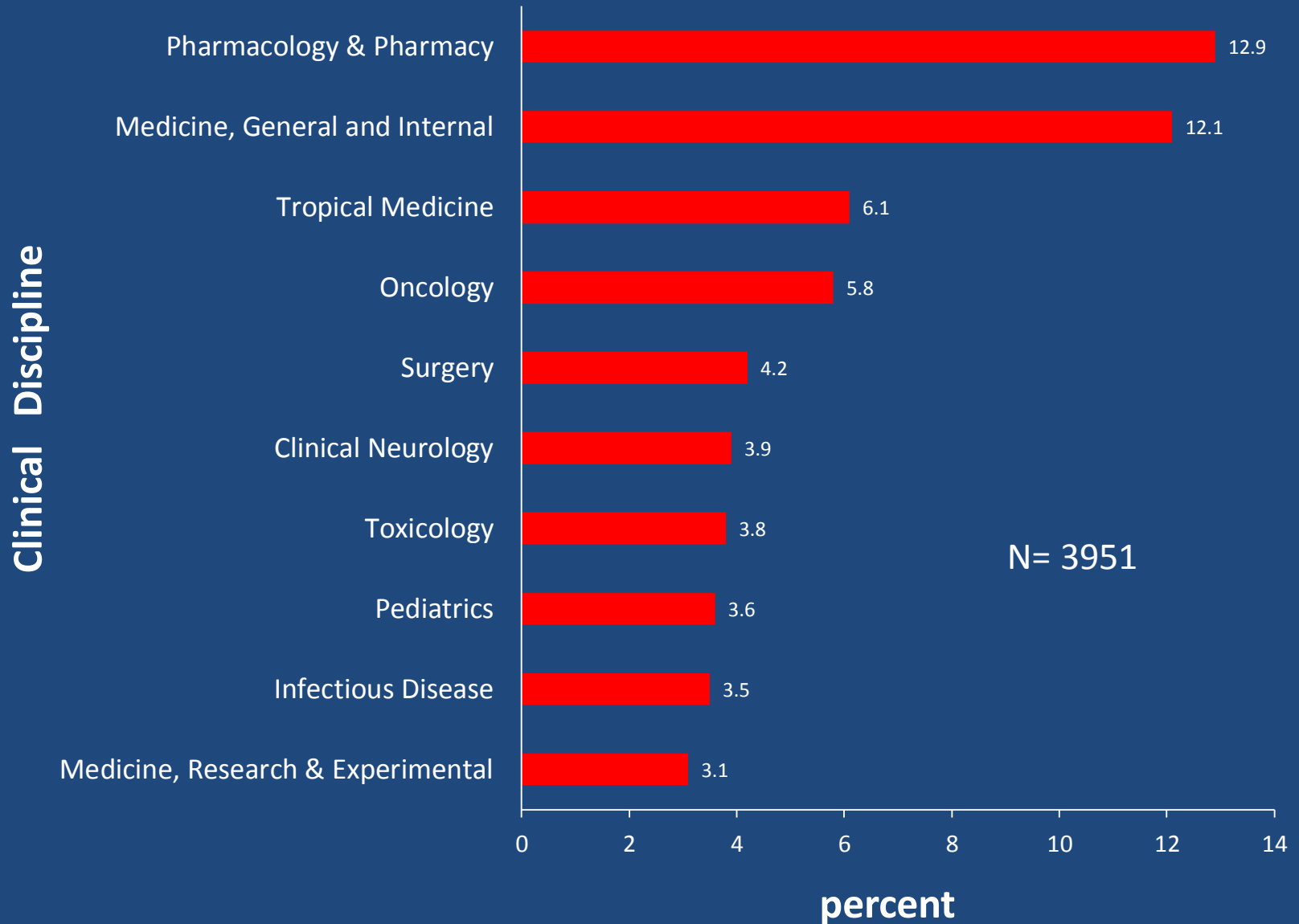


Figure 3. Relative Citation Impact of Science Citation Index Publications. 1991-2005

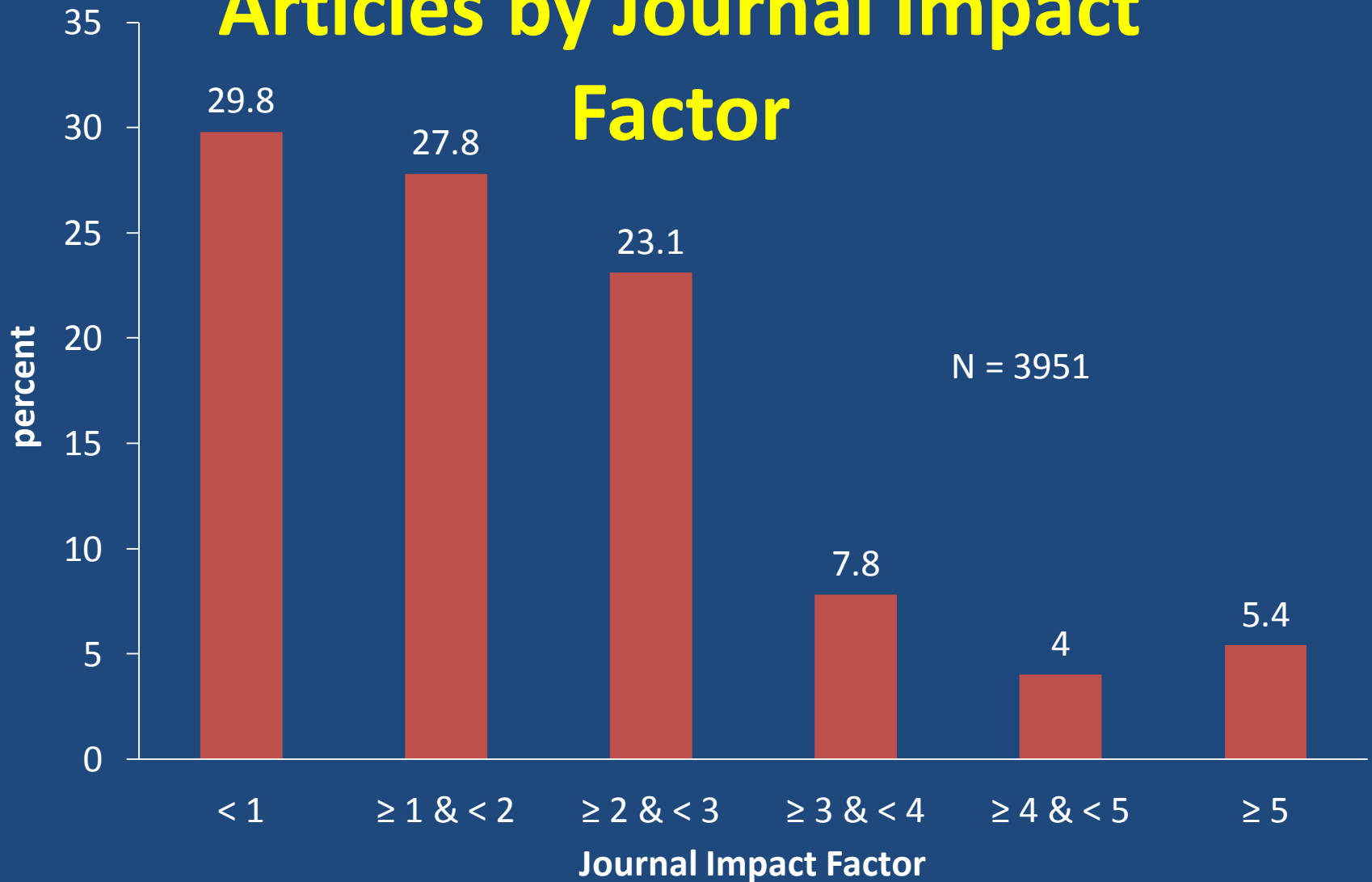
Malaysian Clinical Medicine Articles Published Over The Years in WOS (2001-2010)



Top Ten Publication Ranking by Clinical Discipline



Articles by Journal Impact Factor

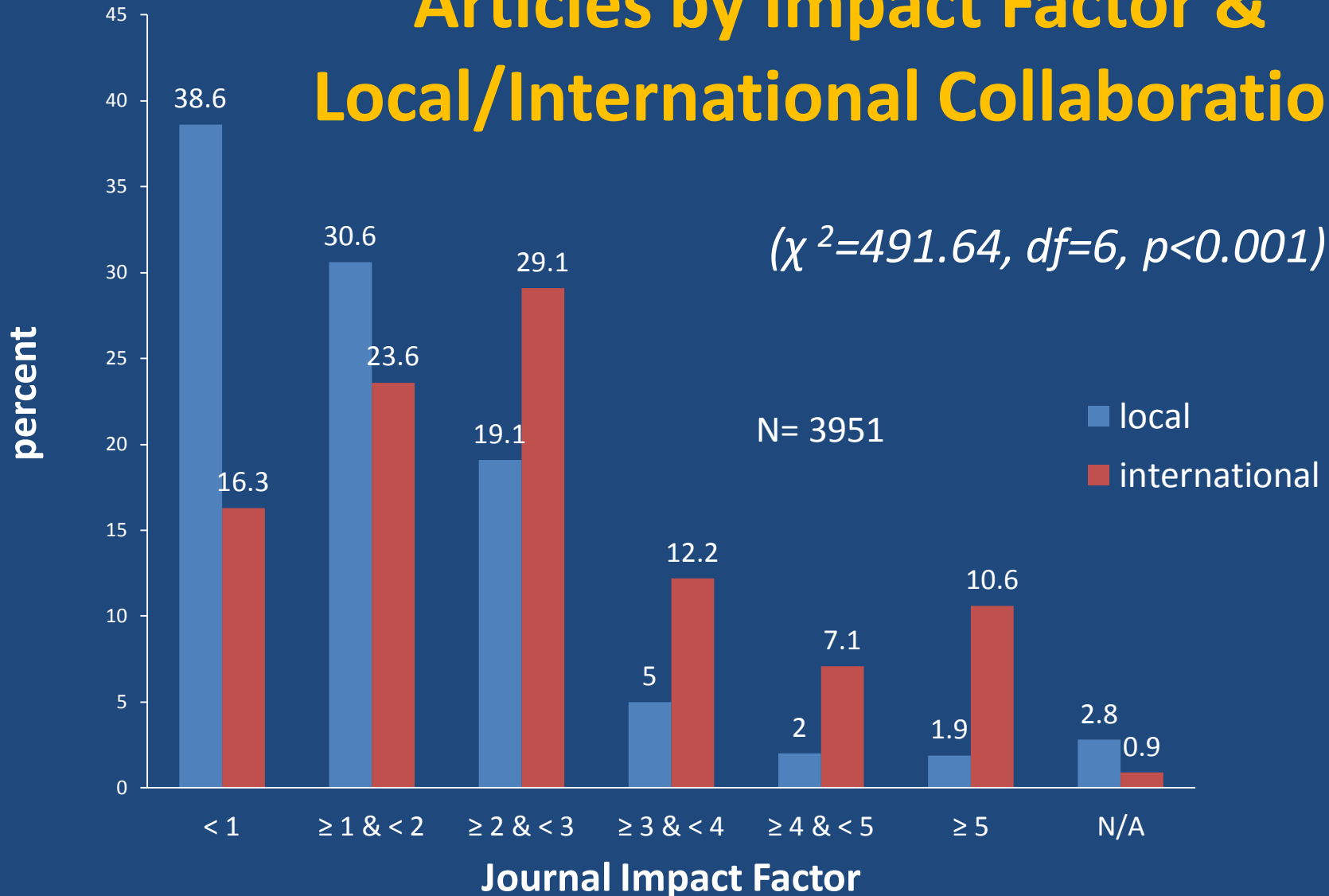


Top Malaysian Public Institutions in Clinical Medicine Publications

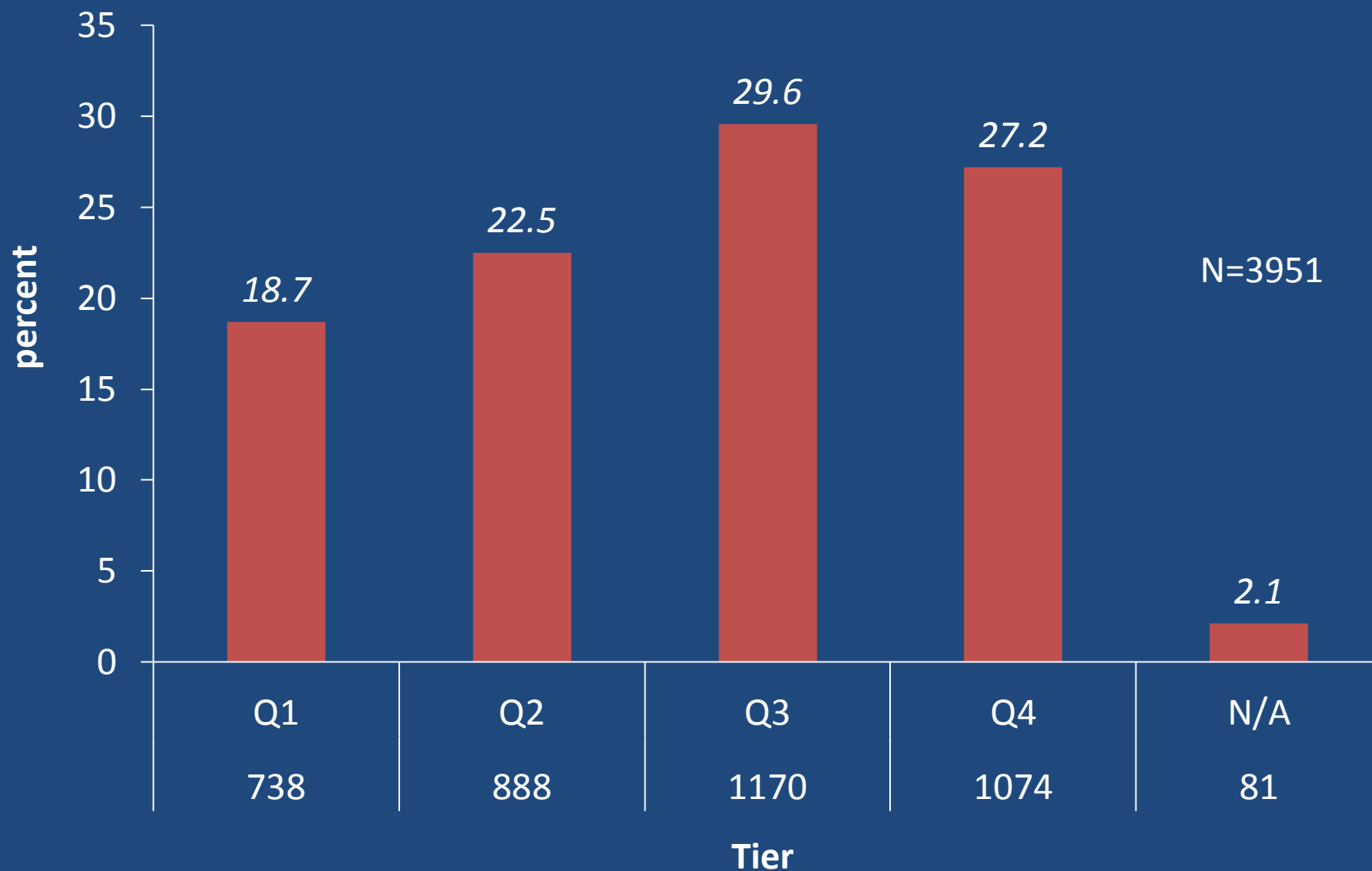
Public Institutions	N	Percent
University of Malaya	1237	31.30
University Science Malaysia	852	21.56
Universiti Kebangsaan Malaysia	656	16.60
University Putra Malaysia	439	11.10
Institute of Medical Research	178	4.50

Articles by Impact Factor & Local/International Collaboration

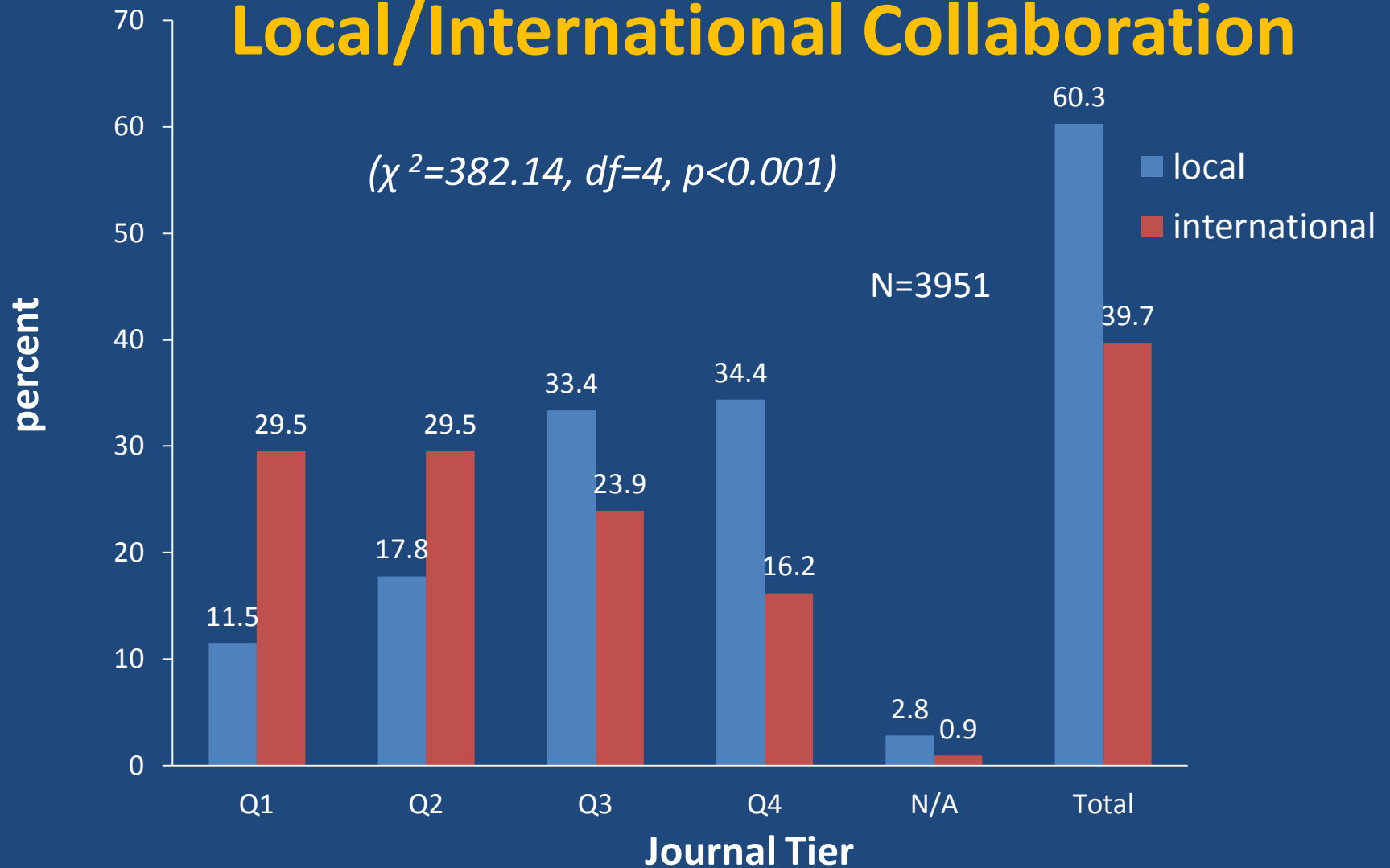
$(\chi^2=491.64, df=6, p<0.001)$



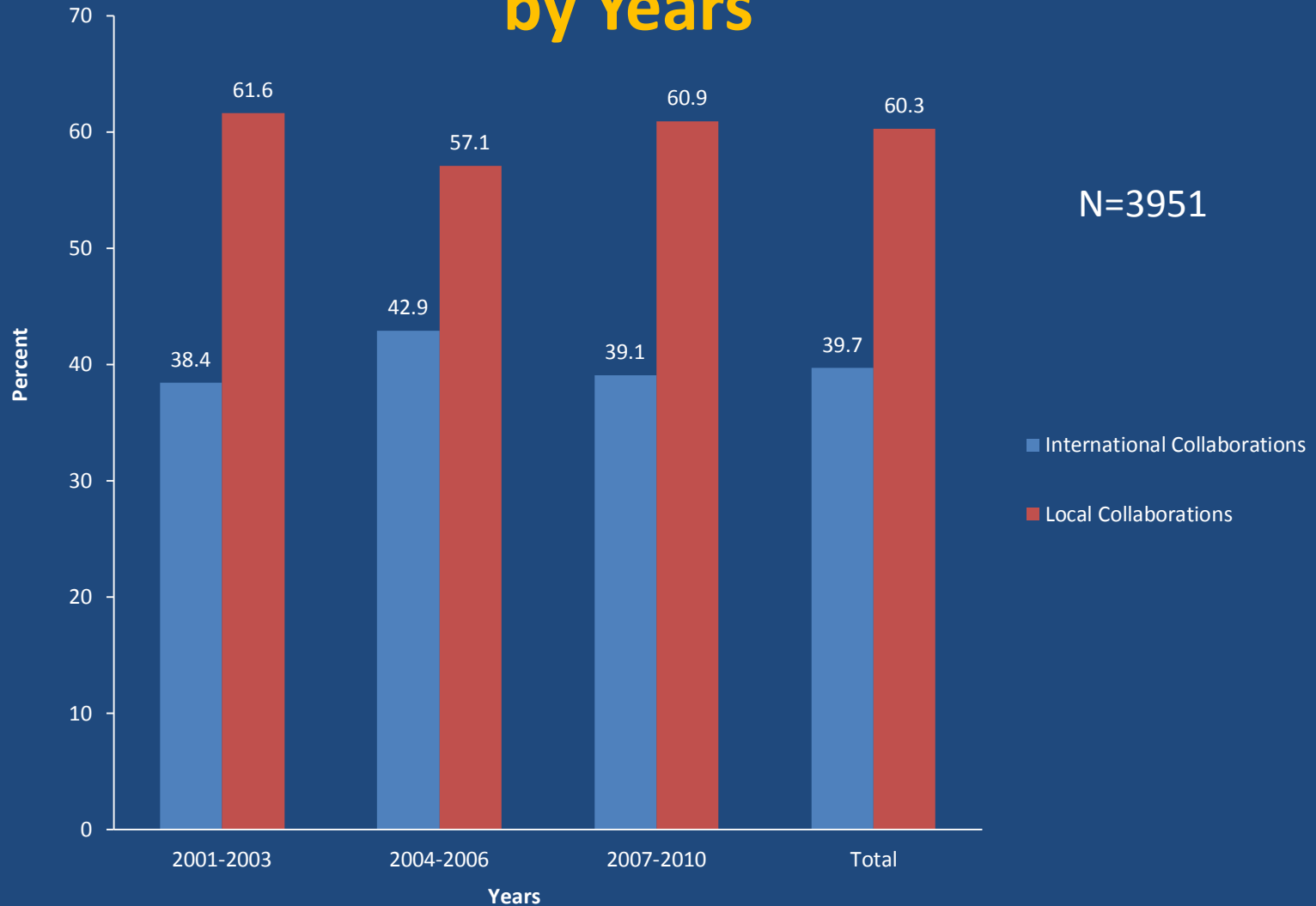
Articles Published by Journal Tier



Journal Tiers by Local/International Collaboration



International/Local Collaborations by Years



International Collaborating countries

Country	N	Percent
Great Britain	304	7.69
USA	298	7.54
Australia	274	6.93
Singapore	234	5.92
Japan	222	5.61
China	179	4.53
India	164	4.15
Thailand	125	3.16
Indonesia	91	2.30
Korea	90	2.27
Taiwan	90	2.27

Summary

- Proportion of internationally collaborated articles in Malaysia's clinical medicine publications remain low during the study period.
- Number of articles in each year correlate significantly with the % of articles with international collaboration ($p < 0.001$)
- Articles with international collaborations appeared in journals with higher journal IFs than those without international collaboration (mean IF 3.04 vs mean IF 1.52 respectively, $p < 0.001$)
- International collaboration papers increased with journal tiers: 29.5% in articles with Tier 1 journals in contrast with 16.2% in articles with a Tier 4 journals

- Articles with international collaborations were cited more significantly than articles without international collaborations (mean citation 10.81 vs mean citation 4.08 respectively, $p < 0.001$)
- Great Britain, the most important collaborating partner of Malaysia's clinical medicine research contributed to 7.7% of articles with international collaboration
- There is a need to understand the dynamics of International collaborative research so as to formulate best practices for collaborative work in journal publication. More research is warranted on international collaboration in journal publishing
- International collaboration in research → the way forward in journal publication

Writing & PUBLISHING

a Public Health Research Paper



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Mi Kyung Lee
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